



SEQUENCE LISTING

RECEIVED
DEC 27 2001
TECH CENTER 1600/2900

<110> YAGAWA, SHUJI
OKABE, MASARU

<120> MODIFIED CRE RECOMBINASE GENE FOR MAMMALS

<130> 197330US0

<140> 09/662,128

<141> 2000-09-14

<150> JP11-264364

<151> 1999-09-17

<160> 6

<170> PatentIn version 3.0

<210> 1

<211> 1050

<212> DNA

<213> Artificial Sequence

<220>

<221> CDS

<222> (1)..(1050)

<220>

<221> misc_feature

<222> ()..()

<223> Description of Artificial Sequence: synthetic dna

<400> 1

atg ccc aag aag aag agg aag gtg agc aac ctg ctg acc gtg cac cag 48
Met Pro Lys Lys Lys Arg Lys Val Ser Asn Leu Leu Thr Val His Gln
1 5 10 15

aac ctg ccc gcc ctg ccc gtg gac gcc acc agc gac gag gtg cgc aag 96
Asn Leu Pro Ala Leu Pro Val Asp Ala Thr Ser Asp Glu Val Arg Lys
20 25 30

aac ctg atg gac atg ttc cgc gac cgc cag gcc ttc agc gag cac acc 144
Asn Leu Met Asp Met Phe Arg Asp Arg Gln Ala Phe Ser Glu His Thr
35 40 45

tgg aag atg ctg ctg agc gtg tgc cgc agc tgg gcc gcc tgg tgc aag 192
Trp Lys Met Leu Leu Ser Val Cys Arg Ser Trp Ala Ala Trp Cys Lys
50 55 60

ctg aac aac cgc aag tgg ttc ccc gcc gag ccc gag gac gtg cgc gac 240
Leu Asn Asn Arg Lys Trp Phe Pro Ala Glu Pro Glu Asp Val Arg Asp
65 70 75 80

tac ctg ctg tac ctg cag gcc cgc ggc ctg gcc gtg aag acc atc cag 288
Tyr Leu Leu Tyr Leu Gln Ala Arg Gly Leu Ala Val Lys Thr Ile Gln

85 90 95

cag cac ctg ggc cag ctg aac atg ctg cac cgc cgc agc ggc ctg ccc 336
Gln His Leu Gly Gln Leu Asn Met Leu His Arg Arg Ser Gly Leu Pro
100 105 110

cgc ccc agc gac agc aac gcc gtg agc ctg gtg atg cgc cgc atc cgc 384
Arg Pro Ser Asp Ser Asn Ala Val Ser Leu Val Met Arg Arg Ile Arg
115 120 125

aag gag aac gtg gac gcc ggc gag cgc gcc aag cag gcc ctg gcc ttc 432
Lys Glu Asn Val Asp Ala Gly Glu Arg Ala Lys Gln Ala Leu Ala Phe
130 135 140

gag cgc acc gac ttc gac cag gtg cgc agc ctg atg gag aac agc gac 480
Glu Arg Thr Asp Phe Asp Gln Val Arg Ser Leu Met Glu Asn Ser Asp
145 150 155 160

cgc tgc cag gac atc cgc aac ctg gcc ttc ctg ggc atc gcc tac aac 528
Arg Cys Gln Asp Ile Arg Asn Leu Ala Phe Leu Gly Ile Ala Tyr Asn
165 170 175

acc ctg ctg cgc atc gcc gag atc gcc cgc atc cgc gtg aag gac atc 576
Thr Leu Leu Arg Ile Ala Glu Ile Ala Arg Ile Arg Val Lys Asp Ile
180 185 190

B' cont.
agc cgc acc gac ggc ggc cgc atg ctg atc cac atc ggc cgc acc aag 624
Ser Arg Thr Asp Gly Gly Arg Met Leu Ile His Ile Gly Arg Thr Lys
195 200 205

acc ctg gtg agc acc gcc ggc gtg gag aag gcc ctg agc ctg ggc gtg 672
Thr Leu Val Ser Thr Ala Gly Val Glu Lys Ala Leu Ser Leu Gly Val
210 215 220

acc aag ctg gtg gag cgc tgg atc agc gtg agc ggc gtg gcc gac gac 720
Thr Lys Leu Val Glu Arg Trp Ile Ser Val Ser Gly Val Ala Asp Asp
225 230 235 240

ccc aac aac tac ctg ttc tgc cgc gtg cgc aag aac ggc gtg gcc gcc 768
Pro Asn Asn Tyr Leu Phe Cys Arg Val Arg Lys Asn Gly Val Ala Ala
245 250 255

ccc agc gcc acc agc cag ctg agc acc cgg gcc ctg gag ggc atc ttc 816
Pro Ser Ala Thr Ser Gln Leu Ser Thr Arg Ala Leu Glu Gly Ile Phe
260 265 270

gag gcc acc cac cgc ctg atc tac ggc gcc aag gac gac agc ggc cag 864
Glu Ala Thr His Arg Leu Ile Tyr Gly Ala Lys Asp Asp Ser Gly Gln
275 280 285

cgc tac ctg gcc tgg agc ggc cac agc gcc cgc gtg ggc gcc gcc cgc 912
Arg Tyr Leu Ala Trp Ser Gly His Ser Ala Arg Val Gly Ala Ala Arg
290 295 300

gac atg gcc cgc gcc ggc gtg agc atc ccc gag atc atg cag gcc ggc 960
Asp Met Ala Arg Ala Gly Val Ser Ile Pro Glu Ile Met Gln Ala Gly
305 310 315 320

ggc tgg acc aac gtg aac atc gtg atg aac tac atc cgc aac ctg gac 1008
 Gly Trp Thr Asn Val Asn Ile Val Met Asn Tyr Ile Arg Asn Leu Asp
 325 330 335

agc gag acc ggc gcc atg gtg cgc ctg ctg gag gac ggc gac 1050
 Ser Glu Thr Gly Ala Met Val Arg Leu Leu Glu Asp Gly Asp
 340 345 350

<210> 2
 <211> 350
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> misc_feature
 <222> ()..()
 <223> Description of Artificial Sequence: synthetic peptide

<400> 2

Met Pro Lys Lys Lys Arg Lys Val Ser Asn Leu Leu Thr Val His Gln
 1 5 10 15

Asn Leu Pro Ala Leu Pro Val Asp Ala Thr Ser Asp Glu Val Arg Lys
 20 25 30

Asn Leu Met Asp Met Phe Arg Asp Arg Gln Ala Phe Ser Glu His Thr
 35 40 45

Trp Lys Met Leu Leu Ser Val Cys Arg Ser Trp Ala Ala Trp Cys Lys
 50 55 60

Leu Asn Asn Arg Lys Trp Phe Pro Ala Glu Pro Glu Asp Val Arg Asp
 65 70 75 80

Tyr Leu Leu Tyr Leu Gln Ala Arg Gly Leu Ala Val Lys Thr Ile Gln
 85 90 95

Gln His Leu Gly Gln Leu Asn Met Leu His Arg Arg Ser Gly Leu Pro
 100 105 110

Arg Pro Ser Asp Ser Asn Ala Val Ser Leu Val Met Arg Arg Ile Arg
 115 120 125

Lys Glu Asn Val Asp Ala Gly Glu Arg Ala Lys Gln Ala Leu Ala Phe
 130 135 140

B'
 cont.

Glu Arg Thr Asp Phe Asp Gln Val Arg Ser Leu Met Glu Asn Ser Asp
 145 150 155 160

Arg Cys Gln Asp Ile Arg Asn Leu Ala Phe Leu Gly Ile Ala Tyr Asn
 165 170 175

Thr Leu Leu Arg Ile Ala Glu Ile Ala Arg Ile Arg Val Lys Asp Ile
 180 185 190

Ser Arg Thr Asp Gly Gly Arg Met Leu Ile His Ile Gly Arg Thr Lys
 195 200 205

Thr Leu Val Ser Thr Ala Gly Val Glu Lys Ala Leu Ser Leu Gly Val
 210 215 220

Thr Lys Leu Val Glu Arg Trp Ile Ser Val Ser Gly Val Ala Asp Asp
 225 230 235 240

Pro Asn Asn Tyr Leu Phe Cys Arg Val Arg Lys Asn Gly Val Ala Ala
 245 250 255

Pro Ser Ala Thr Ser Gln Leu Ser Thr Arg Ala Leu Glu Gly Ile Phe
 260 265 270

Glu Ala Thr His Arg Leu Ile Tyr Gly Ala Lys Asp Asp Ser Gly Gln
 275 280 285

Arg Tyr Leu Ala Trp Ser Gly His Ser Ala Arg Val Gly Ala Ala Arg
 290 295 300

Asp Met Ala Arg Ala Gly Val Ser Ile Pro Glu Ile Met Gln Ala Gly
 305 310 315 320

Gly Trp Thr Asn Val Asn Ile Val Met Asn Tyr Ile Arg Asn Leu Asp
 325 330 335

Ser Glu Thr Gly Ala Met Val Arg Leu Leu Glu Asp Gly Asp
 340 345 350

<210> 3

<211> 34

<212> DNA

<213> Artificial Sequence

<220>
<221> misc_feature
<222> ()..()
<223> Description of Artificial Sequence: synthetic DNA

<400> 3
ataacttcgt atagcataca ttatacgaag ttat

34

<210> 4
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> ()..()
<223> Description of Artificial Sequence: synthetic DNA

<400> 4
ttcgtatagc atagattata cgaagttat

29

b'
ord. <210> 5
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> ()..()
<223> Description of Artificial Sequence: synthetic DNA

<400> 5
ataacttcgt atagcataca ttatacgaa

29

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> ()..()
<223> Description of Artificial Sequence: synthetic DNA

<400> 6
cccaagaaga agaggaaggt g

21